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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,647	04/06/2005	Tamaki Horisaka	2933HC-1	7618
	442 7590 10/04/2007 HERIDAN ROSS PC 560 BROADWAY		EXAMINER ELEY, TIMOTHY V	
SUITE 1200 DENVER, CO 80202			ART UNIT	PAPER NUMBER
222., 00	~~~		3724	
•	•		MAIL DATE	DELIVERY MODE
			10/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1	Application No.	Applicant(s)			
	10/530,647	HORISAKA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Timothy V. Eley	3724			
The MAILING DATE of this communicated Period for Reply	ation appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun  - If NO period for reply is specified above, the maximum statut  - Failure to reply within the set or extended period for reply wil Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNIC 37 CFR 1.136(a). In no event, however, may a re- ication. ory period will apply and will expire SIX (6) MON I, by statute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed	Responsive to communication(s) filed on <u>12 July 2007</u> .				
<u> </u>	, <del>_</del>				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice	under Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4)  Claim(s) 1-20 is/are pending in the app 4a) Of the above claim(s) 11-13 is/are of 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-10 and 14-20 is/are rejected 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction	withdrawn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the E 10) ☑ The drawing(s) filed on 06 April 2005 is Applicant may not request that any objection Replacement drawing sheet(s) including the 11) ☐ The oath or declaration is objected to be	/are: a)⊠ accepted or b)⊡ object on to the drawing(s) be held in abeyan e correction is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for a) △ All b) ☐ Some * c) ☐ None of:  1. △ Certified copies of the priority do	ocuments have been received. Incuments have been received in Aporthe priority documents have been a large of the Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s)	_				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO 3)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date 4/6/05.</li> </ol>	–948) Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application _			

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#### DETAILED ACTION

### Specification

- 1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are now directed.
- 2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors.

  Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

# Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claims 1-10, and 14-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - The following phrases in the claims are vague, indefinite, and/or awkwardly and confusingly worded and are therefore not fully understood:
    - o "a rinsing . . . process"(claim 1, last 5 lines). This phrase is not fully understood. How are the abrasive grains washed away from the plate if they are collected in the polishing pad?

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- o "the abrasive . . . process" (claim 1, last 2 lines). This phrase is awkwardly worded.
- o "load . . . pre-polishing" (claim 7, lines 4 and 5; claim 18, lines 3-5). This phrase is vague and indefinite, since it was not previously recited as to exactly how the polishing pad was used.
- o "load . . . post-polishing" (claim 8, lines 4-6; claim 19, lines 3-5). This phrase is vague and indefinite, since it was not previously recited as to exactly how the polishing pad was used.
- o "wherein load . . . "(claim 9, last 2 lines; claim 20, last line). What applies the load?
- The following phrases in the claims lack proper antecedent since they were not properly earlier referred to:
  - o "the abrasive . . . pad"(claim 1, last paragraph, lines 3 and 4). Applicant did not previously recite that abrasive grains would be collected in a polishing pad.
  - o "the polishing pad" (claim 1, penultimate line).
  - o "the aperture diameter" (claim 3, lines 6 and 7).

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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- 6. Claim 10 is rejected under 35 U.S.C. 102(e) as being anticipated by Nakajima et al(6,503,857).
  - Nakajima et al discloses a glass substrate exhibiting the
    physical characteristics recited by applicant. The substrate of
    Nakajima et al could have been manufactured by the method
    disclosed by applicant, since applicant is reciting a product by
    process claim.

### Allowable Subject Matter

7. Claims 1-9, and 14-20 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

#### Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - The cited prior art discloses methods of manufacturing glass substrates.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy V. Eley whose

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telephone number is 571-272-4506. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer D. Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Timothy V. Eley/
Timothy V Eley
Primary Examiner
Art Unit 3724